

[454-A-18]

SEAT No. _____

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SARDAR PATEL UNIVERSITY

B.Sc. Industrial Chemistry

Semester-VI Examination

US06CICH04: MANAGEMENT, COSTING & PLANT DESIGN

Date: 02/04/2018

Time: 10:00 a.m. to 01: 00 p.m.

Day: Monday

Total Marks = 70

Q.1

Answer the following MCQ, All are compulsory.

10

- 1 The period during which use of a property is economically feasible is known as _____.
(a) Property life (b) Service life (c) Economical Life (d) none
- 2 Source for long term capital are _____.
(a) Insurance (b) Large bank (c) finance or capital company (d) All of above
- 3 The formula to calculate annual depreciation cost may be expressed in equation by straight line method is _____.
(a) $d = V - V_s/n$ (b) $n = V - V_s/d$ (c) $2d = V - V_s$ (d) both a & b
- 4 The set of marketing tools that form uses to pursue its marketing objective is called _____.
(a) marketing tools mix (b) marketing set (c) both a & b (d) marketing mix
- 5 The formula which shows the value of product is _____.
(a) benefit / cost (b) cost / profit (c) Benefit/Profit (d) cost / benefit
- 6 What is the formula for break even?
(a) $F * v/p$ (b) $p/v * 1/f$ (c) $f * p/v$ (d) all of above
- 7 What is formula for total inventory cost (TIC)?
(a) $TIC = QC/2 + AO/Q$ (b) $TIC = AO/2 + QC/O$
(c) $TIC = AO * QC$ (d) none of above
- 8 What is the formula for calculation order size (Q)?
(a) $Q = 2AO/C$ (b) $Q = \sqrt{2AO/C}$ (c) $Q = \sqrt{C/2AO}$ (d) $Q = C/2AO$
- 9 Identify the type of legal phase in development of project _____.
(a) patent (b) infringement (c) contract (d) all of above
- 10 Identify the stage of evolution of process _____.
(a) process research (b) process development (c) pilot plant (d) all of above

(P.T.O.)

(1)

Q.2	Answer the following in short (ANY TEN)	20
1	Define: book value & Depreciation.	
2	Define: business management.	
3	Enlist different types of insurances.	
4	Define: marketing mix. Which are the pillars of marketing?	
5	Name components of marketing environment.	
6	Enlist various stages of demand.	
7	Enlist the secondary factors in plant location.	
8	Define the term inventory management and give inclusion of it.	
9	Define: Economic Order Quantity (EOQ).	
10	What are different considerations made in pilot plant study?	
11	Enlist different types of reactors with suitable examples.	
12	What points are taken into consideration while designing a commercial unit?	
Q.3	a. What is financial management and explain the role of finance manager.	05
	b. Write a short note on taxes.	05
	OR	
Q.3	a. Write a note on simple and compound interests.	05
	b. Write a note on long and short term capital.	05
Q.4	a. Write a note on Break Even Analysis.	05
	b. Write a note on mathematical methods for profitability calculation.	05
	OR	
Q.4	a. Write a note on core concepts of marketing management.	05
	b. Explain the role of marketing manager at various stages of demands.	05
Q.5	a. Write a note on factors involved in project cost estimation.	05
	b. Explain the methods used for EOQ calculation.	05
	OR	
Q.5	a. Write note on the needs and objectives of inventory management.	05
	b. Short note on factors involved in selection of plant location.	05
Q.6	Discuss various stages of logical evolution of a process.	10
	OR	
Q.6	Distinguished between pilot plant and commercial plant.	10